

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



EV689313370US



(43) International Publication Date
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number
WO 2005/030282 A1

(51) International Patent Classification⁷: A61L 27/34,
28/00, 29/08, 31/10, 33/06

(74) Agents: BOITTIAUX, Vincent et al.; Rhodia Services,
Direction de la Propriété Industrielle, 40 rue de la Haie Coq,
F-93306 Aubervilliers Cedex (FR).

(21) International Application Number:
PCT/EP2004/010773

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(22) International Filing Date:
24 September 2004 (24.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03078031.6 25 September 2003 (25.09.2003) EP

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

(71) Applicants (for all designated States except US): RHO-
DIA CHIMIE [FR/FR]; 26 quai Alphonse Le Gallo,
F-92512 Boulogne Billancourt Cedex (FR). WAGENIN-
GEN UNIVERSITEIT, AGROTECHNOLOGIE EN
VOEDINGSWETENSCHAPPEN [NL/NL]; P.O. Box
8129, NL-6700 EV Wageningen (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): COHEN STU-
ART, Martinus, Abraham [NL/NL]; Hartenseweg 44,
NL-6705 BK Wageningen (NL). VAN DER BURGH,
Stefan [NL/NL]; Tarthorst 377, NL-6708 HM Wageningen
(NL). FOKKINK, Reint, Gerrit [NL/NL]; Vordenseweg
28, NL-7255 BW Hengelo (NL). DE KEIZER, Arie
[NL/NL]; Roghorst 337, NL-6708 KX Wageningen (NL).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: COMPLEX COACERVATE CORE MICELLES AS SURFACE MODIFICATION OR SURFACE TREATMENT

(57) Abstract: The present invention relates to devices carrying on the surface polymeric micelles and a process for the preparation thereof. It further relates to the use of polymeric micelles as a surface coating for rendering a surface anti-fouling and/or protein-resistant. The present invention relates to modified or treated surfaces carrying on polymeric micelles and a process for the preparation thereof. It further relates to the use of polymeric micelles as a surface coating for surface modification or surface treatment. The surface modification or surface treatment is for example for rendering a surface anti-fouling and/or protein-resistant, or for preventing bacteria proliferation, disinfecting, suppressing odours, preventing malodour, providing easy-cleaning or soil-release properties. These polymeric micelles are of the so-called complex coacervate core type, exhibiting a hydrophilic, neutral corona and a core, which is formed by charge complexation of oppositely charged blocks.

WO 2005/030282 A1